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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,772	12/19/2001	Rajesh S. Agarwalla	AUS920010795US1	1225
65362 7590 03/09/2010 HAMILTON & TERRILE, LLP IBM Austin P.O. BOX 203518 AUSTIN, TX 78720				
EXAMINER				
WANG, LIANG CHE A				
ART UNIT		PAPER NUMBER		
2453				
NOTIFICATION DATE		DELIVERY MODE		
03/09/2010		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

tmunoz@hamiltontertile.com

Notice of Allowability**Application No.**

10/034,772

Applicant(s)

AGARWALLA ET AL.

Examiner

Liangche A. Wang

Art Unit

2453

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 10/20/09.
2. ☒ The allowed claim(s) is/are 1-3, 6, 24-27, 32-34, 37, 55-58, 63-65, 68, 86-89 (renumbered as 1-24).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Liangche A. Wang/
Primary Examiner, Art Unit 2453

SUPPLEMENTAL EXAMINER'S AMENDMENT

1. Claims 1-3, 6, 24-27, 32-34, 37, 55-58, 63-65, 68, 86-89 are allowed.
2. The only change in this supplemental examiner's amendment is to correctly record claim 84 is cancelled by incorporating the limitation in claim 84 to claim 63 as discussed with attorney on 1/5/10. Examiner's amendment issued on 1/14/10 did not indicate claim 84 is cancelled.
3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
4. Authorization for this examiner's amendment was given in a telephone interview with Gary Hamilton on 01/05/2010.
5. The application has been amended as follow:

Claims 1, 32 and 63 are amended as follow to incorporate limitations from dependent claims 22, 23, 53, 54, 54, 84 and 85. Claims 22, 23, 53, 54, 54, 84 and 85 are cancelled.

1. (Currently Amended) A method for processing objects at a data processing system in a network, the method comprising processing logic used for:
receiving a message at a computing device;
determining that a message header in the message indicates that the message relates to a fragment and that the fragment is cacheable, wherein the message header comprises no-cache directive data for not caching the fragment for non-fragment-supporting cache management units and caching directive data for caching the fragment for fragment-supporting cache management units;

determining whether a cache management unit is a non-fragment-supporting cache management unit or a fragment-supporting cache management unit;
processing the no-cache directive data to generate a no-cache instruction to a non-fragment-supporting cache management unit; ~~and~~
processing the caching directive data to generate a no-cache instruction to a non-fragment-supporting cache management unit;
retrieving a set of dependency identifiers from the message, wherein a dependency identifier is generated by a server that originated the fragment;
storing the set of dependency identifiers in association with a source identifier for the fragment;
receiving an invalidation request message;
retrieving a dependency identifier from the invalidation request message;
determining a set of fragments that are associated with the dependency identifier; and
purging the set of fragments from the cache in response to determining the set of fragments that are associated with the dependency identifier.

32. (Currently Amended) An apparatus for processing objects at a data processing system in a network, the apparatus comprising:
- means for receiving a message at a computing device;
 - means for determining that a message header in the message indicates that the message relates to a fragment and that the fragment is cacheable, wherein the message header comprises no-cache directive data for not caching the fragment for non-fragment-supporting cache management units and caching directive data for caching the fragment for fragment-supporting cache management units;
 - means for determining whether a cache management unit is a non-fragment-supporting cache management unit or a fragment-supporting cache management unit;
 - means for processing the no-cache directive data to generate a no-cache instruction to a non-fragment-supporting cache management unit; ~~and~~
 - means for processing the caching directive data to generate a no-cache instruction to a non-fragment-supporting cache management unit;

means for retrieving a set of dependency identifiers from the message, wherein a
dependency identifier is generated by a server that originated the fragment;
means for storing the set of dependency identifiers in association with a source identifier
for the fragment;
means for receiving an invalidation request message; means for retrieving a dependency
identifier from the invalidation request message;
means for determining a set of fragments that are associated with the dependency
identifier; and
means for purging the set of fragments from the cache in response to determining the set
of fragments that are associated with the dependency identifier.

63. (Currently Amended) A computer program product in a computer readable storage medium for use in a data processing system in a network for processing objects, the computer program product comprising:

instructions for receiving a message at a computing device; and
instructions for determining that a message header in the message indicates that the message relates to a fragment and that the fragment is cacheable, wherein the message header comprises no-cache directive data for not caching the fragment for non-fragment-supporting cache management units and caching directive data for caching the fragment for fragment-supporting cache management units;
instructions for determining whether a cache management unit is a non-fragment-supporting cache management unit or a fragment-supporting cache management unit;
instructions for processing the no-cache directive data to generate a no-cache instruction to a non-fragment-supporting cache management unit; ~~and~~
instructions for processing the caching directive data to generate a no-cache instruction to a non-fragment-supporting cache management unit;
instructions for retrieving a set of dependency identifiers from the message, wherein a
dependency identifier is generated by a server that originated the fragment;

instructions for storing the set of dependency identifiers in association with a source identifier for the fragment;
instructions for receiving an invalidation request message;
instructions for retrieving a dependency identifier from the invalidation request message;
instructions for determining a set of fragments that are associated with the dependency identifier; and
instructions for purging the set of fragments from the cache in response to determining the set of fragments that are associated with the dependency identifier.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Liangche A. Wang whose telephone number is (571)272-3992. The examiner can normally be reached on Monday thru Friday, 8:30 am to 5:00 pm.
8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Thomas can be reached on (571)272-6776. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Liang-che Alex Wang
March 2, 2010

/Liangche A. Wang/
Primary Examiner, Art Unit 2453